

Title (en)
TRANSITION METAL CATALYTIC SYSTEMS AND METHODS FOR PREPARING ETHYLENE HOMOPOLYMERS OR COPOLYMERS OF ETHYLENE AND ALPHA-OLEFINS USING THE SAME.

Title (de)
ÜBERGANGSMETALLKATALYSATORSYSTEME UND -VERFAHREN ZUR HERSTELLUNG VON ETHYLEN-HOMOPOLYMEREN ODER -COPOLYMEREN AUS ETHYLEN UND ALPHA-OLEFINEN DAMIT

Title (fr)
SYSTÈMES CATALYTIQUES À MÉTAL DE TRANSITION ET PROCÉDÉS DE PRÉPARATION D'HOMOPOLYMÈRES D'ÉTHYLÈNE OU DE COPOLYMÈRES D'ÉTHYLÈNE ET D'ALPHA-OLÉFINES UTILISANT CEUX-CI

Publication
EP 2326654 A2 20110601 (EN)

Application
EP 09816418 A 20090923

Priority
• KR 2009005429 W 20090923
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Abstract (en)
[origin: US2010081776A1] Provided are transition metal catalytic systems for preparing ethylene homopolymers or copolymers of ethylene with α -olefins. More specifically, provided are Group 4 transition metal catalysts, which is characterized in that the catalyst comprises around the Group 4 transition metal a cyclopentadiene derivative, and at least one aryloxy ligand(s) having a fluorenyl group or a derivative thereof (which is ready to be substituted at 9-position) that functions as an electron donor and serves to stabilize the catalytic system by surrounding an oxygen atom that links the ligand to the transition metal at ortho-position, and there is no cross-linkage between the ligands; catalytic systems comprising such transition metal catalyst and aluminoxane cocatalyst or boron compound cocatalyst; and processes for preparing ethylene homopolymers or copolymers of ethylene with α -olefins by using the same.

IPC 8 full level
C07F 7/28 (2006.01); **B01J 31/38** (2006.01); **C08F 4/6592** (2006.01); **C08F 210/16** (2006.01)

CPC (source: EP KR US)
B01J 31/38 (2013.01 - KR); **C07F 7/28** (2013.01 - KR); **C07F 17/00** (2013.01 - EP US); **C08F 10/02** (2013.01 - KR); **C08F 210/02** (2013.01 - KR); **C08F 210/16** (2013.01 - EP US); **C08F 4/65908** (2013.01 - EP US); **C08F 4/65912** (2013.01 - EP US); **C08F 110/02** (2013.01 - EP US); **C08F 2420/03** (2013.01 - EP US); **Y10S 526/943** (2013.01 - EP US)

C-Set (source: EP US)
1. **C08F 210/16 + C08F 4/6592**
2. **C08F 110/02 + C08F 2500/12 + C08F 2500/08**
3. **C08F 210/16 + C08F 210/14 + C08F 2500/12 + C08F 2500/08**

Cited by
WO2019141838A1; US11560467B2; WO2018153917A1; US11091611B2; WO2018028921A1; WO2018029293A1; US10889708B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
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DOCDB simple family (publication)
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US 56522009 A 20090923; CA 2723960 A 20090923; CN 200980119096 A 20090923; CN 201510089775 A 20090923; EP 09816418 A 20090923; ES 09816418 T 20090923; JP 2011528931 A 20090923; KR 2009005429 W 20090923; KR 20090081840 A 20090901; RU 2010148135 A 20090923; TW 98132052 A 20090923; US 201113223636 A 20110901; US 98164710 A 20101230